

## Specific Area Endorsement Requirements

### CHEMISTRY

**Chemistry Endorsement Requirements:** To be licensed to teach secondary school chemistry, the student must satisfactorily complete requirements for a baccalaureate degree in an arts and sciences discipline and at least 32 semester hours of credit in chemistry to include the following or their equivalent: revised 9/26/06

| <b>Chemistry Courses</b>                 |  |                |
|--|--|----------------|
| <b>Course</b>                            | <b>General Chemistry</b>   | <b>Credits</b> |
| CHEM 131, 132                            | General Chemistry I & II   | 6              |
| CHEM 135L-136L                           | Special General Chemistry Lab (preferred, but 131L-132L General Chemistry Lab acceptable)  | 2-3            |
| CHEM 370                                 | Inorganic Chemistry I  | 3              |
| CHEM 331                                 | Physical Chemistry I   | 3              |
| CHEM 336L                                | Applied Physical Chemistry Lab   | 1              |
| CHEM 341-342                             | Organic Chemistry Lecture  | 6              |
| CHEM 351                                 | Analytical Chemistry   | 4              |
| CHEM 361                                 | Biochemistry I   | 3              |
| CHEM 387L-388L                           | Integrated Inorganic/Organic Lab (An option for a student who decides to major in chemistry late would be 346L and 388L, also 4 credits) | 4              |
| <b>Total Minimum Chemistry Credits</b>   |  | <b>32-33</b>   |
| <b>Support Courses</b>                   |  |                |
| PHYS 240, 250                            | University Physics I-II (PHYS 140-150 acceptable)  | 6              |
| BIO and GEOL                             | Minimum of 3 credits in each   | 6              |
| MATH 235-236                             | Calculus I & II  | 8              |
| CHEM 325                                 | Chemical Hazards and Laboratory Safety   | 1              |
| <b>Total Minimum Support Credits</b>     |  | <b>21</b>      |
| <b>Total Minimum Endorsement Credits</b> |  | <b>53-54</b>   |

